

Refine Search

Search Results -

Terms	Documents
overflow same data same bus same (alter\$3 or change\$3) same mode	63

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Search:

L1

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Search History

DATE: Friday, June 23, 2006 [Printable Copy](#) [Create Case](#)**Set Name Query**

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*DB=PGPB,USPT,USOC; PLUR=YES; OP=OR*L1 overflow same data same bus same (alter\$3 or change\$3) same mode**Hit Count Set Name**

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63 L1

END OF SEARCH HISTORY

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Search Results -

Terms	Documents
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Search:

L2

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DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L2</u>	overflow same data same bus same (alter\$3 or change\$3) same mode	11	<u>L2</u>
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DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

<u>L1</u>	overflow same data same bus same (alter\$3 or change\$3) same mode	63	<u>L1</u>
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Hit Count Set Name

result set

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (control\$4 near10 flow)	6

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<u>L4</u>	11 same (control\$4 near10 flow)	6	<u>L4</u>
<u>L3</u>	11 same (control\$4 near5 flow)	6	<u>L3</u>

DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L2</u>	overflow same data same bus same (alter\$3 or change\$3) same mode	11	<u>L2</u>
-----------	--	----	-----------

DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

<u>L1</u>	overflow same data same bus same (alter\$3 or change\$3) same mode	63	<u>L1</u>
-----------	--	----	-----------

Hit Count Set Name
 result set

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EAST - [Untitled1:1]

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✓ L1: (32) overflow same
✓ L2: (3) 11 same (control

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DBs USPAT

Plurals

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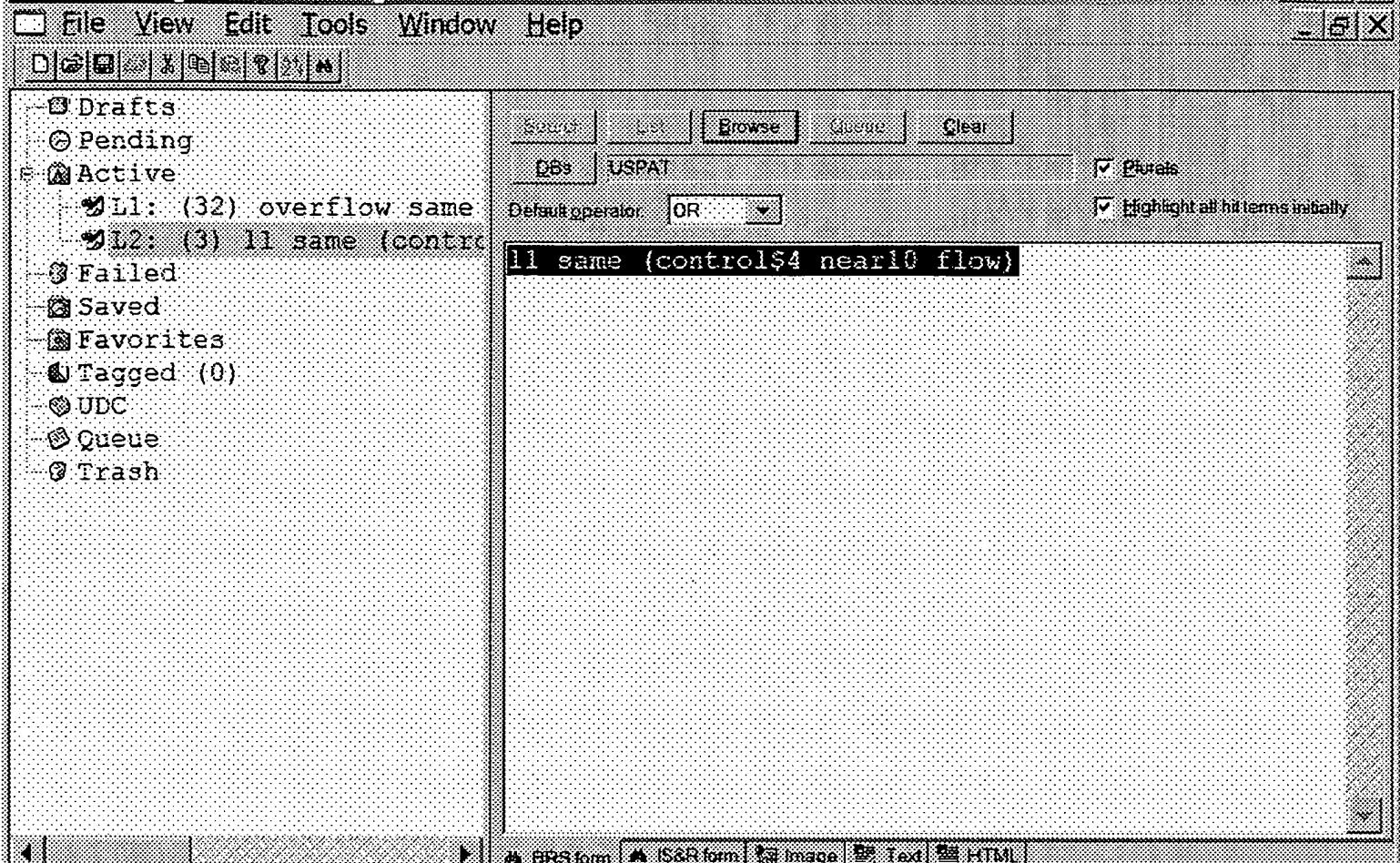
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06/02/06

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EAST - [Untitled1;1]



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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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1. Wireless video coding system demonstration

Villasenor, J.; Jain, R.; Belzer, B.; Boring, W.; Chien, C.; Jones, C.; Liao, J.; Molloy, S.; Nazareth, S.; Schoner, B.; Short, J.;

[Data Compression Conference, 1995. DCC '95. Proceedings](#)

28-30 March 1995 Page(s):448

Digital Object Identifier 10.1109/DCC.1995.515558

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Wireless video coding system demonstration

Villaseca,J. Jain,R. Belzer,B. Boing,W. Chien,C. Jones,C. Liao,J. Molloy,S. Nazareth,S. Schone,L.B. Short,J.
Dept. of Electr. Eng., California Univ., Los Angeles, CA, USA.

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Abstract

Summary form only given. We have developed and present here a prototype point-to-point wireless video system that has been implemented using a combination of commercial components and custom hardware. The coding algorithm being used consists of subband decomposition using low-complexity, integer-coefficient filters, scalar quantization, and run-length and entropy coding. The prototype system consists of the following major components: spread spectrum radio with interface card and driver, compression board, and an NEC laptop and docking station which provide the PC bus slots and control. The compression algorithms are implemented on a board with a single 10000-gate FPGA. Prior to implementing the algorithms in hardware, a study was performed to resolve issues of word length and scaling, and to select quantization and run length parameters. It was determined that 16-bit precision in the wavelet transform stage is sufficient to prevent underflow and overflow provided that rescaling of data is correctly performed. After processing by the FPGA, the compressed video is transferred to the PC for transmission over the radio. A commercial serial card (PI Card) provides a synchronous serial interface to the radio. The serial controller chip used by this card supports several serial protocols and thus the effect of the these protocols on the data in a wireless environment can be tested

Index Terms

Inspec

Controlled Indexing

digital filters, entropy codes, laptop computers, microcomputer applications, quantisation (signal), runlength codes, spread spectrum communication, telecommunication computing, telecommunication control, video coding

Non-controlled Indexing

16 bit, FPGA, NEC laptop, PC bus slots, coding algorithm, compression board, docking station, driver, entropy coding, integer-coefficient filters, interface card, point-to-point wireless video system, run-length coding, scalar quantization, scaling, serial controller chip, spread spectrum radio, subband decomposition, synchronous serial interface, system demonstration, wireless video coding, word length

Author Keywords

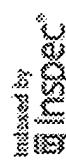
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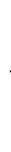
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Wireless video coding system demonstration

Jain, R., Belzer, B., Boring, W., Chien, C., Jones, C., Liao, J., Molizzu, S., Nazareth, S., Schoneveld, B., Shott, J., Villaseenor, J.

This paper appears in: **Data Compression Conference, 1995, DCC_95, Proceedings**
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Summary form only given. We have developed and present here a prototype point-to-point wireless video system that has been implemented using a combination of commercial components and custom hardware. The coding algorithm being used consists of subband decomposition using low-complexity, integer-coefficient filters, scalar quantization, and run-length and entropy coding. The prototype system consists of the following major components: spread spectrum radio with interface card and driver, compression board, and an NEC laptop and docking station which provide the PC bus slots and control. The compression algorithms are implemented on a board with a single 1000-gate FPGA. Prior to implementing the algorithms in hardware, a study was performed to resolve issues of word length and scaling, and to select quantization and run length parameters. It was determined that 16-bit precision in the wavelet transform stage is sufficient to prevent underflow and overflow provided that rescaling of data is correctly performed. After processing by the FPGA, the compressed video is transferred to the PC for transmission over the radio. A commercial serial card (P1 Card) provides a synchronous serial interface to the radio. The serial controller chip used by this card supports several serial protocols and thus the effect of these protocols on the data in a wireless

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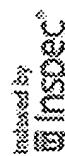
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